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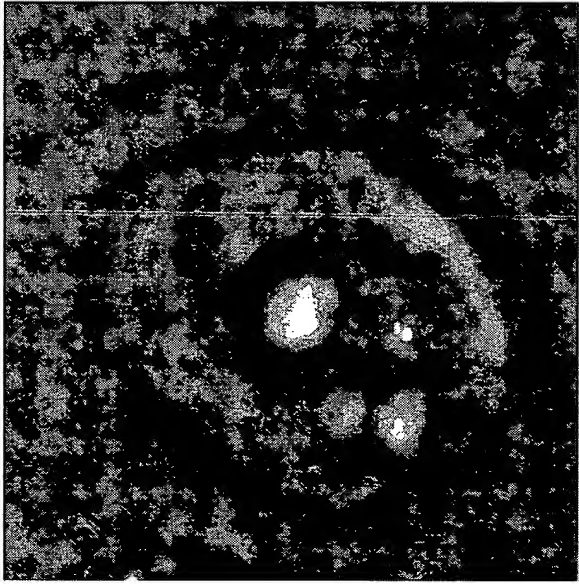
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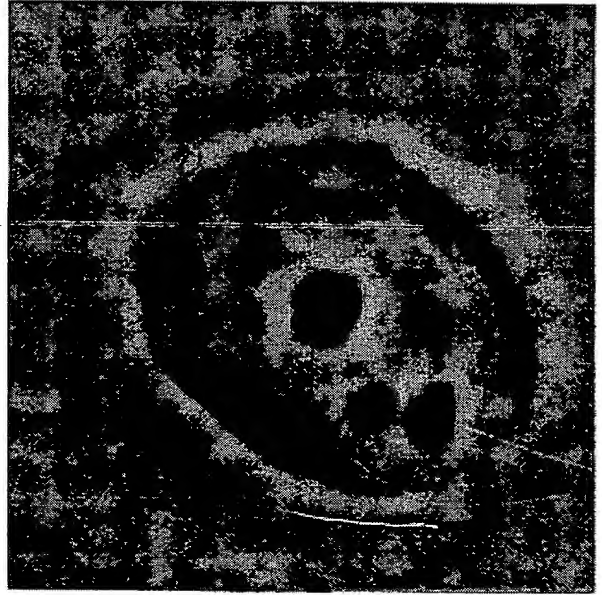
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**FIG.\_1B**



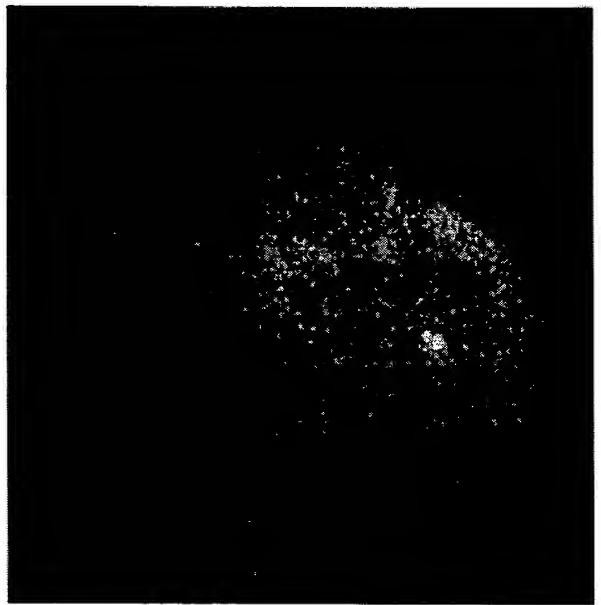
**FIG.\_1D**



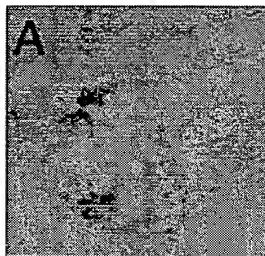
**FIG.\_1A**



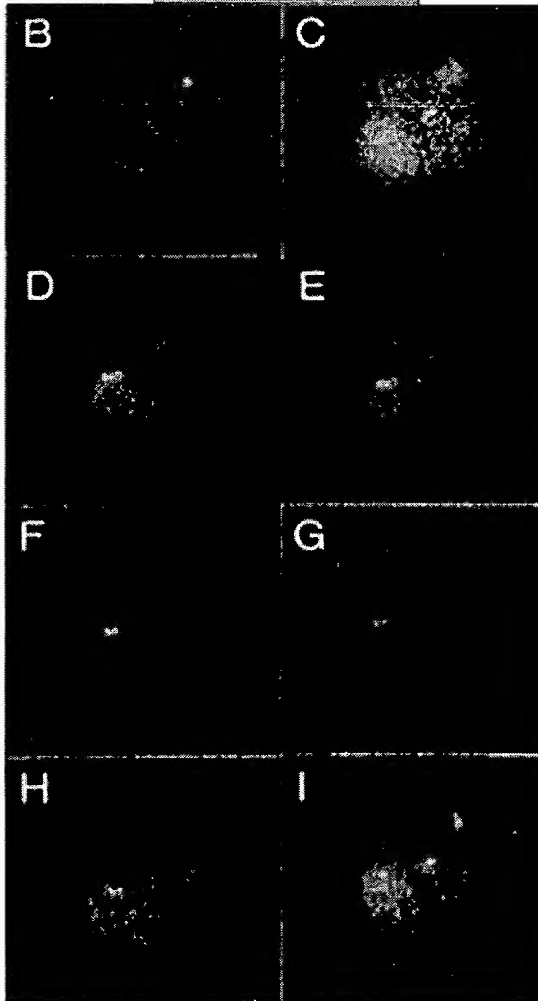
**FIG.\_1C**



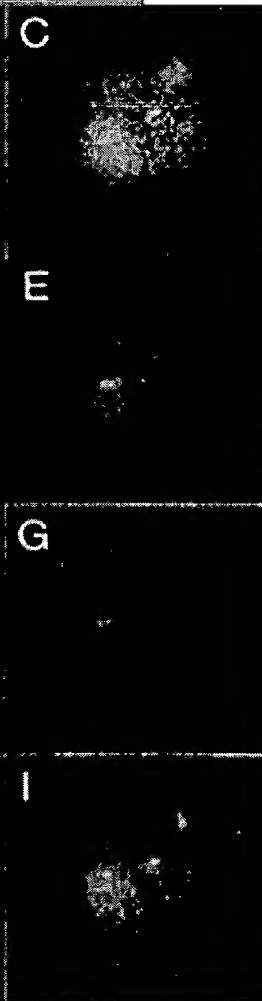
**FIG. 2A**



**FIG. 2B**



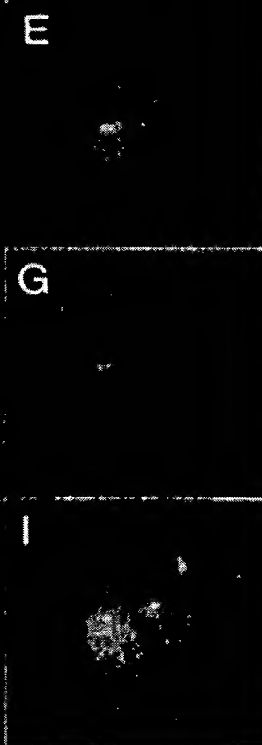
**FIG. 2C**



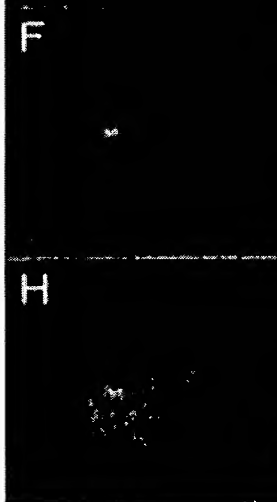
**FIG. 2D**



**FIG. 2E**



**FIG. 2F**



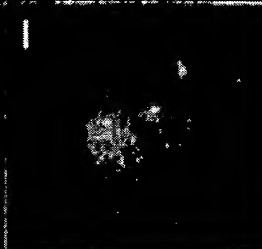
**FIG. 2G**



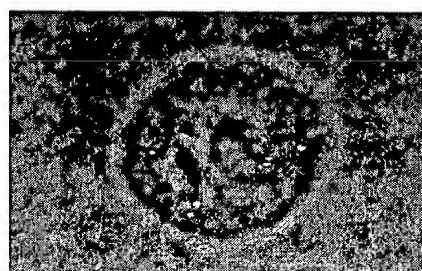
**FIG. 2H**



**FIG. 2I**

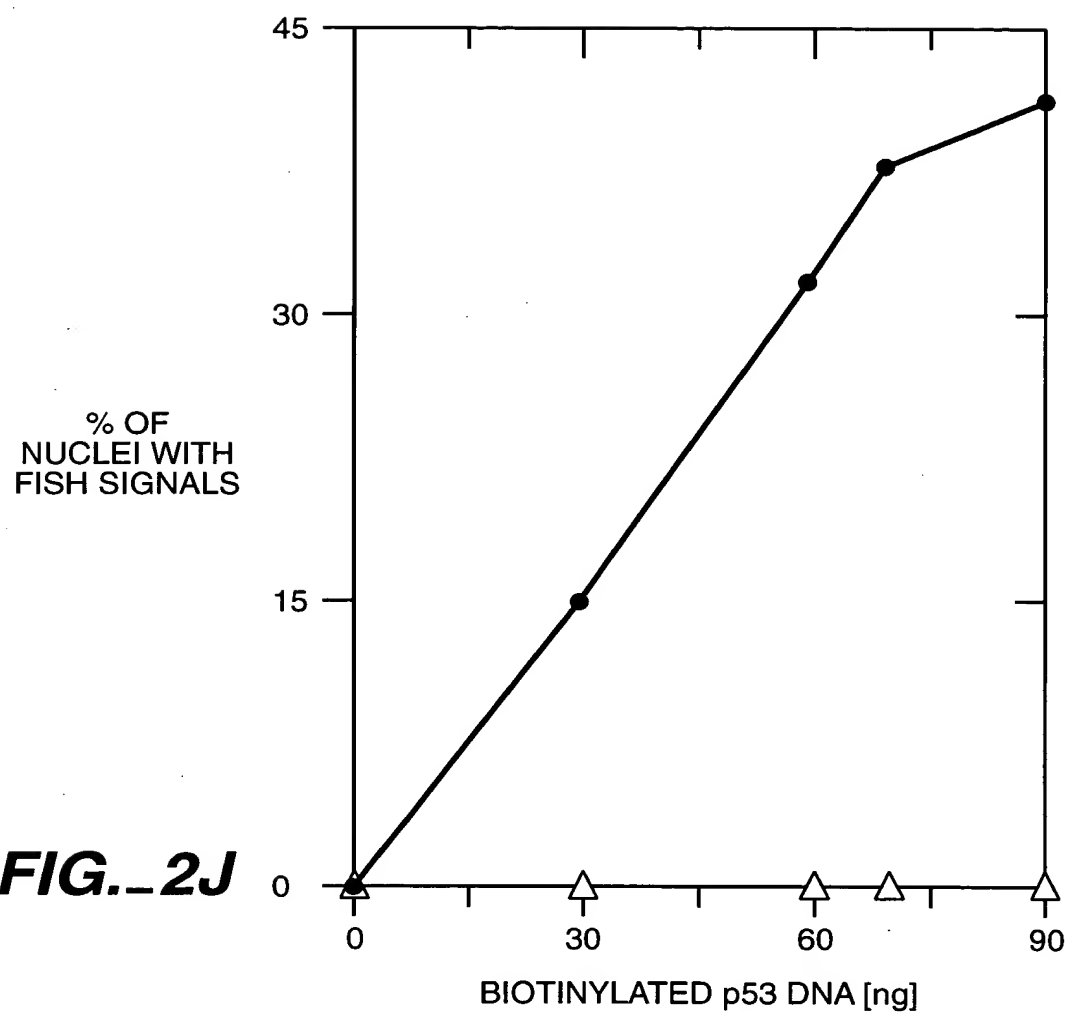


**FIG. 2K**

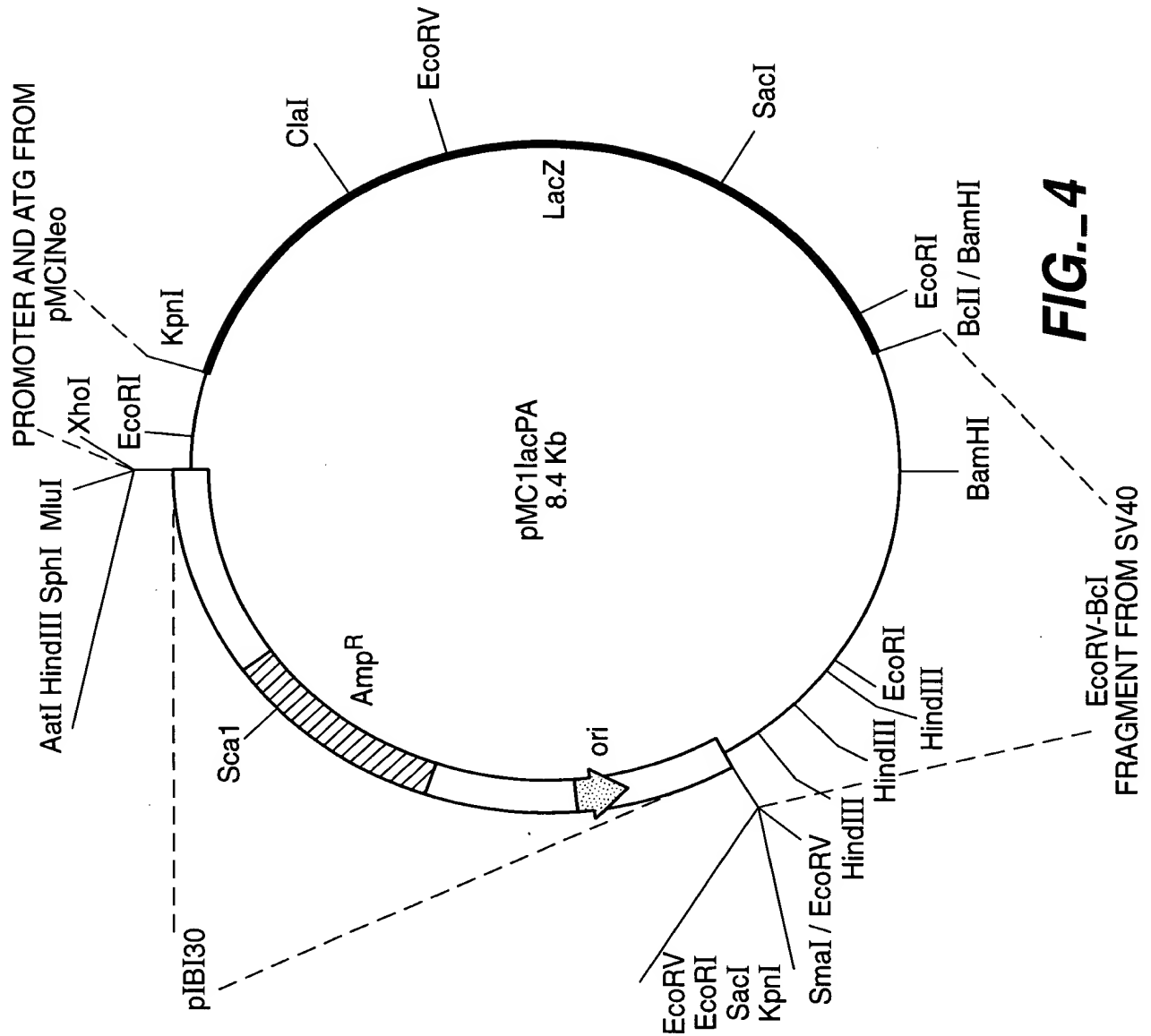


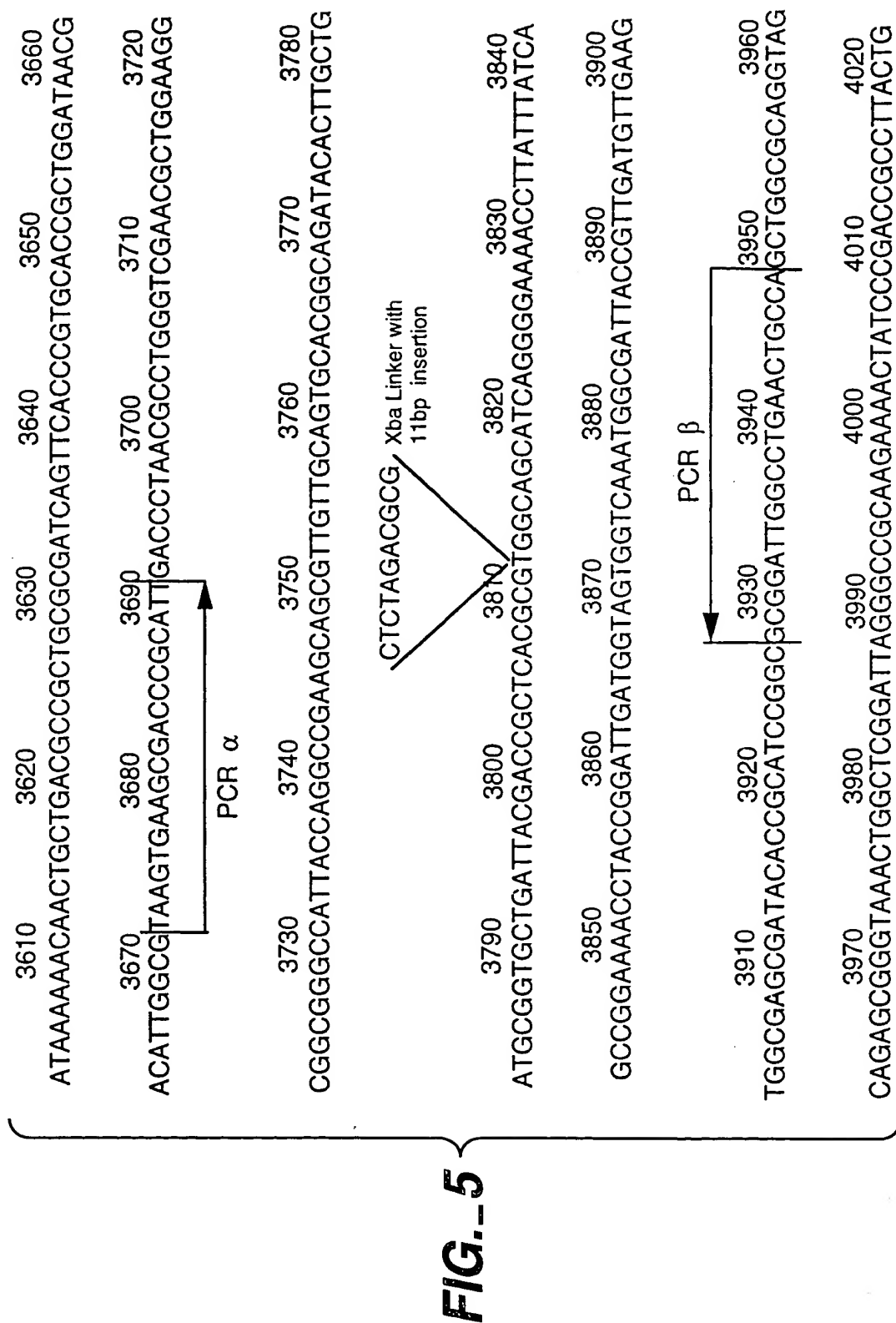
**FIG. 2L**

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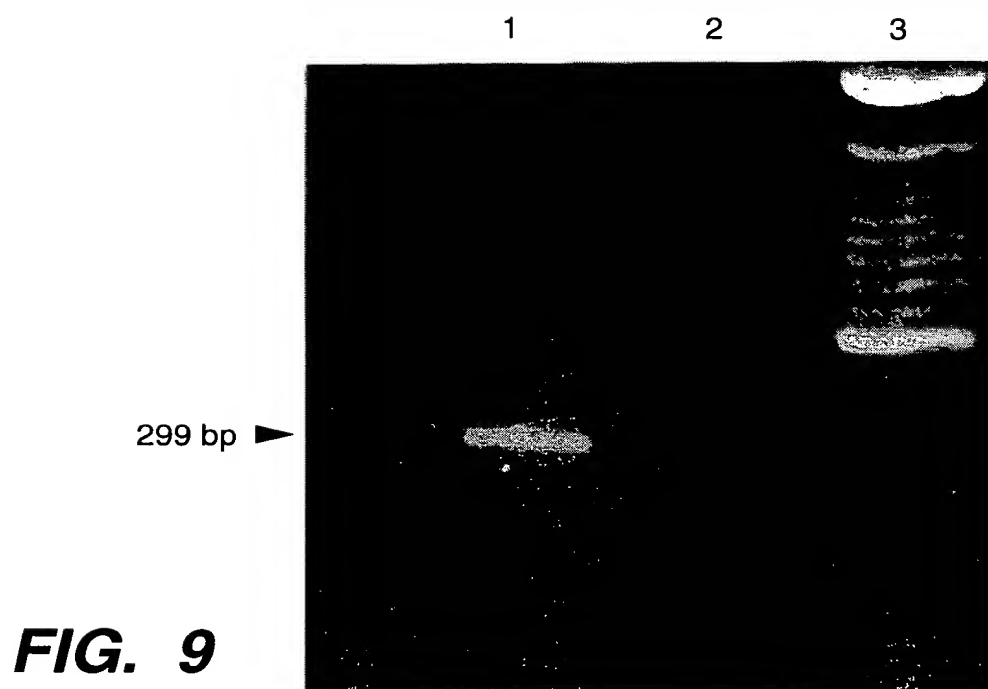
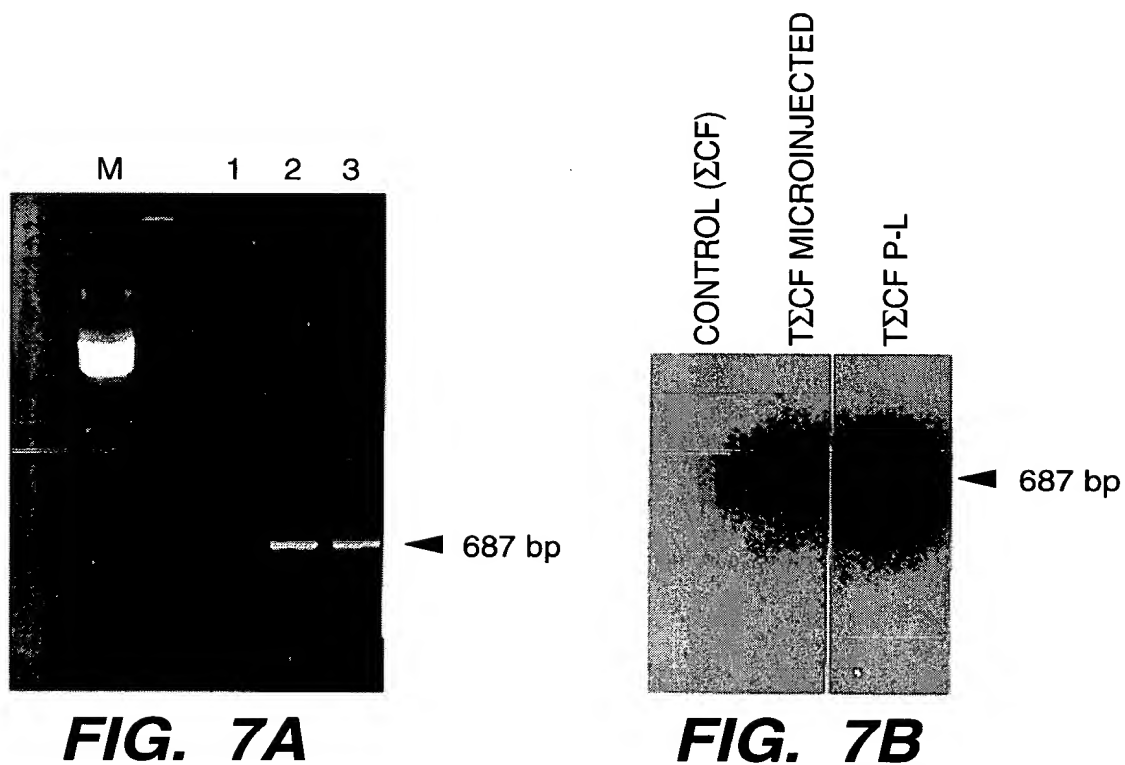
**FIG. 4**



EXPERIMENTAL SAMPLE	INJECTED PLASMID, 276-mer DNA AND RecA PROTEIN	NUMBER OF INJECTED SURVIVING CELLS	NUMBER OF SURVIVING CELLS SCORING BLUE	SURVIVING CELLS SCORING BLUE (%)
1	pSV- $\beta$ -gal -276-mer - RecA	168	21	12.5
2	pMC1lacpa -276-mer - RecA	98	9	9.2
3	pMC1lacXpa -276-mer - RecA	173	0	0
4	pMC1lacXpa +276-mer - RecA	103	0	0
5	pMC1lacXpa +276-mer + RecA	168	6	3.6

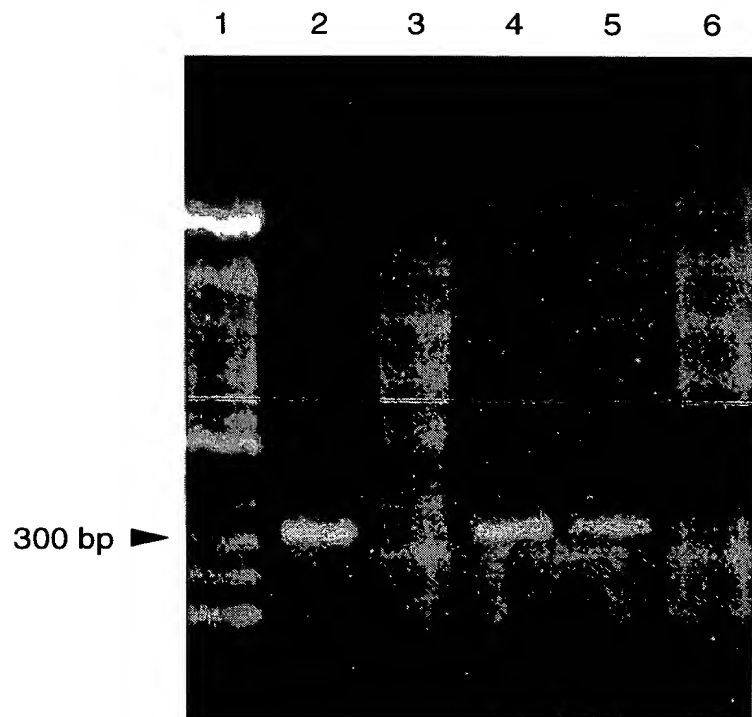
**FIG.\_6**



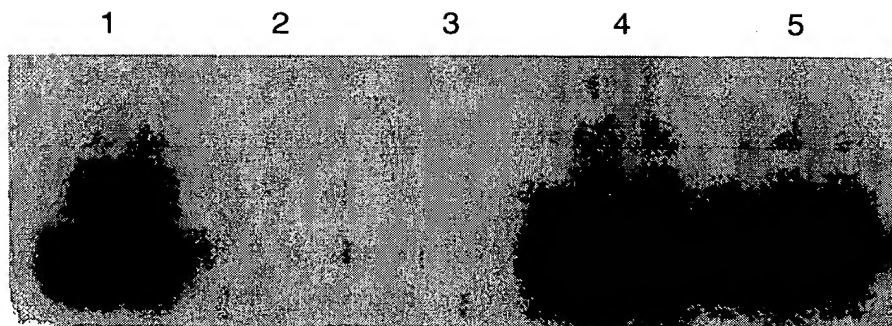




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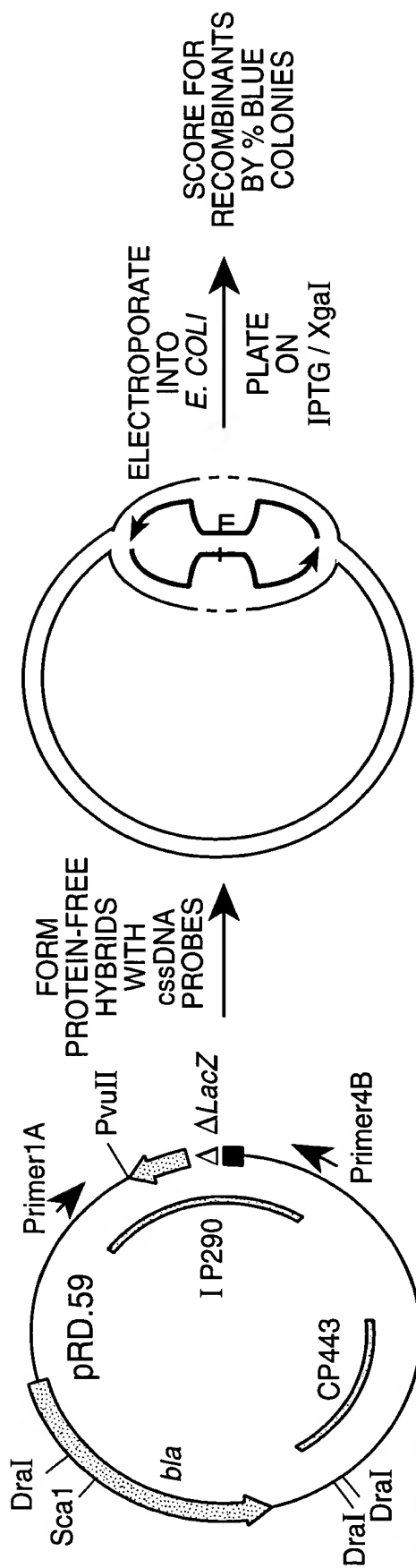
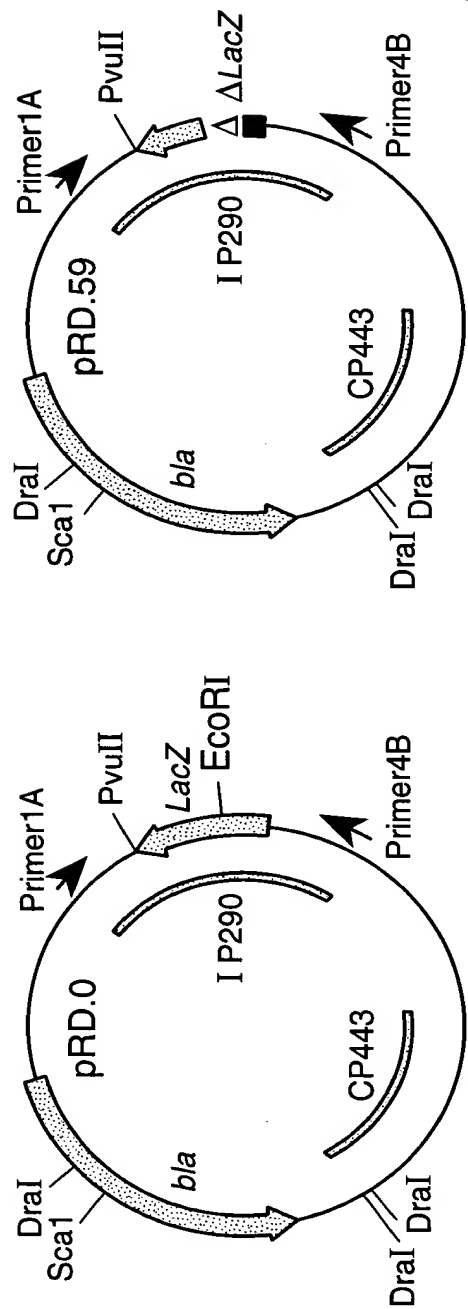
**FIG.\_8A**

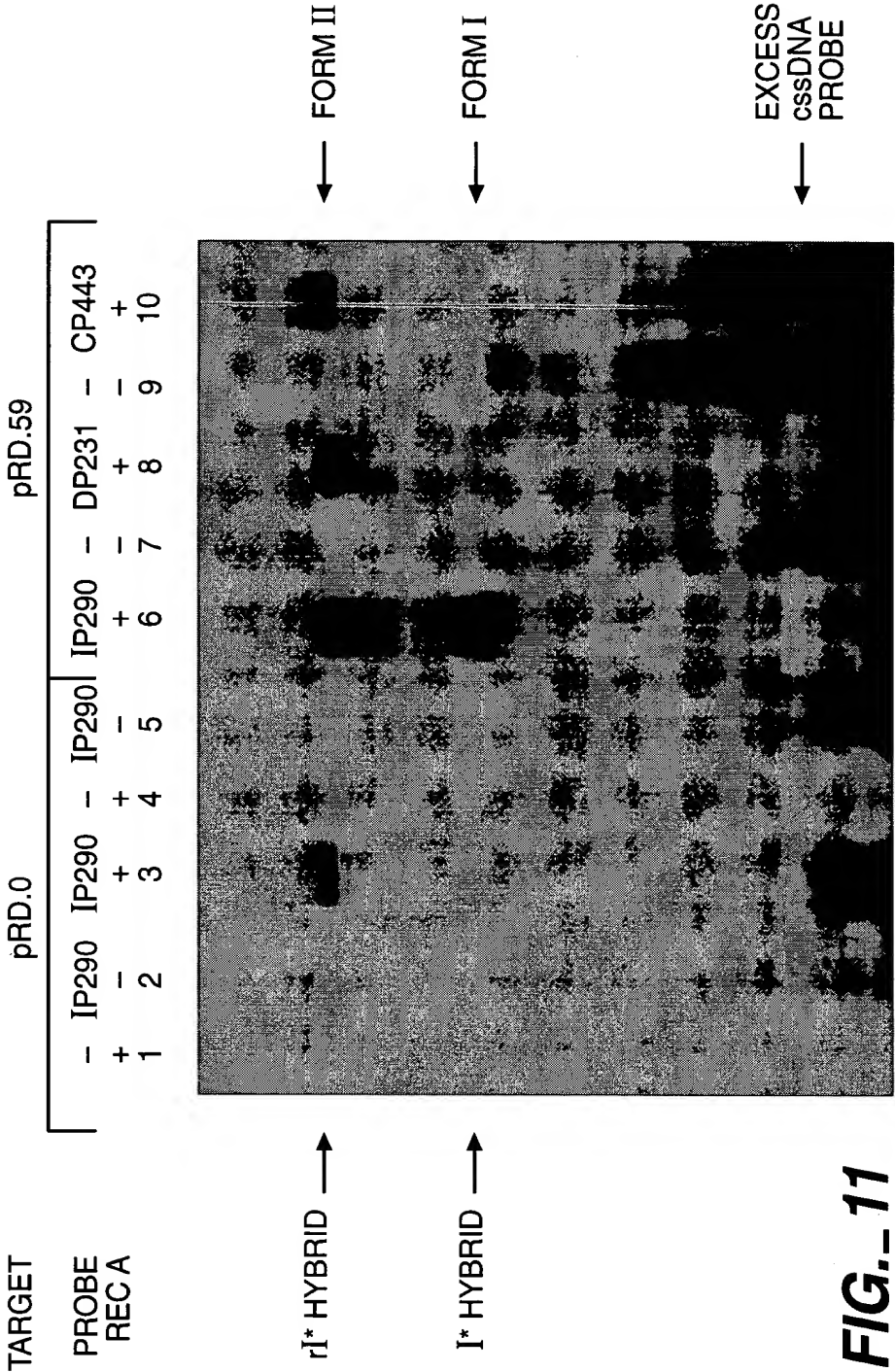


**FIG.\_8B**



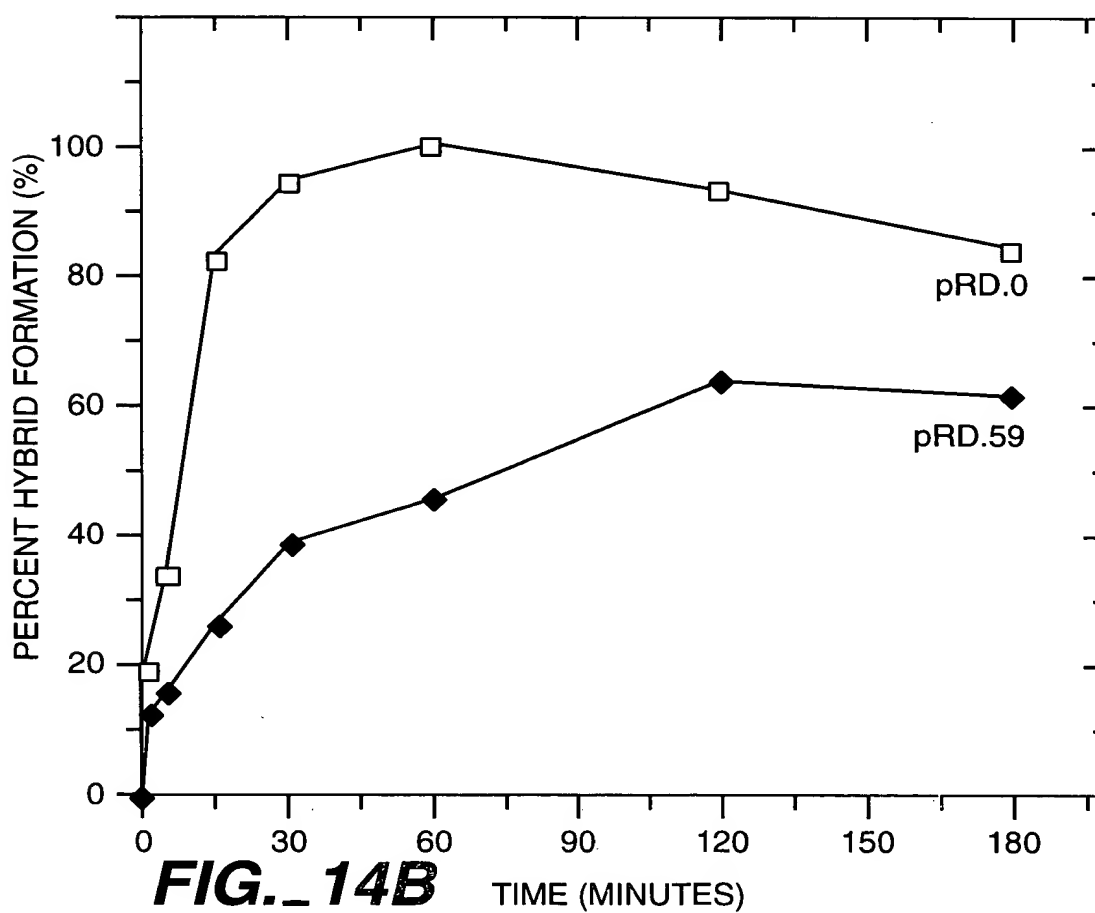
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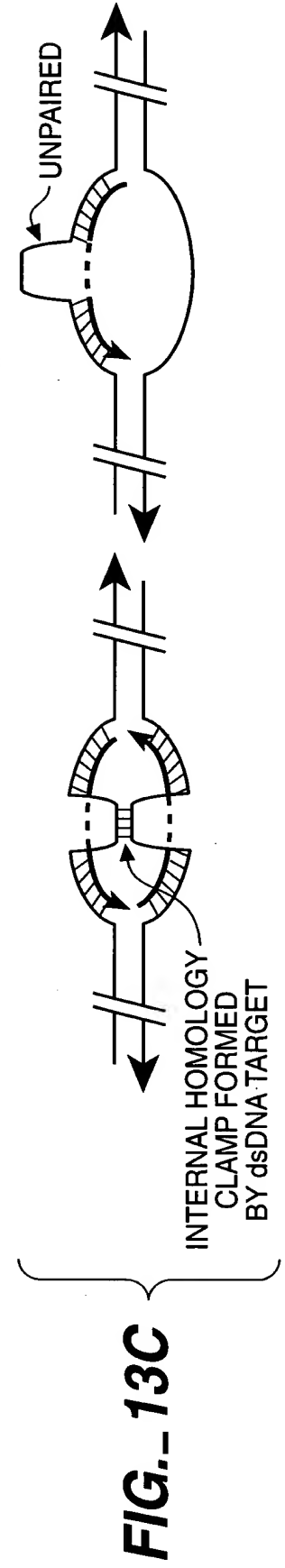
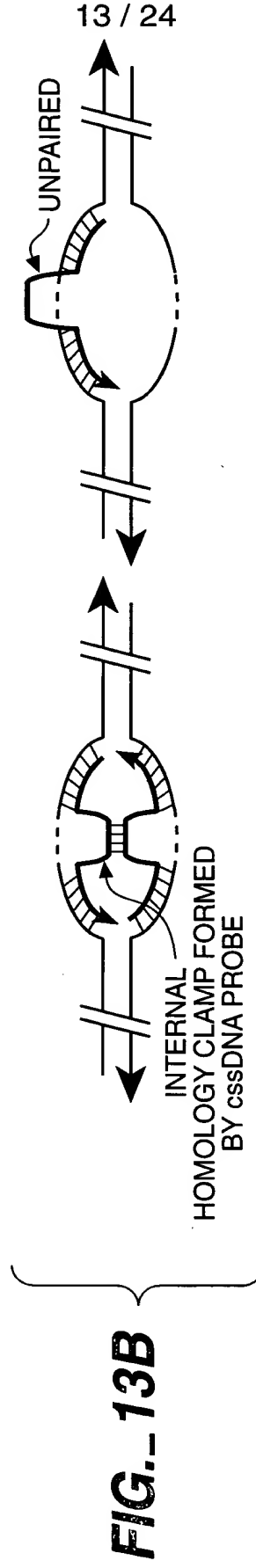
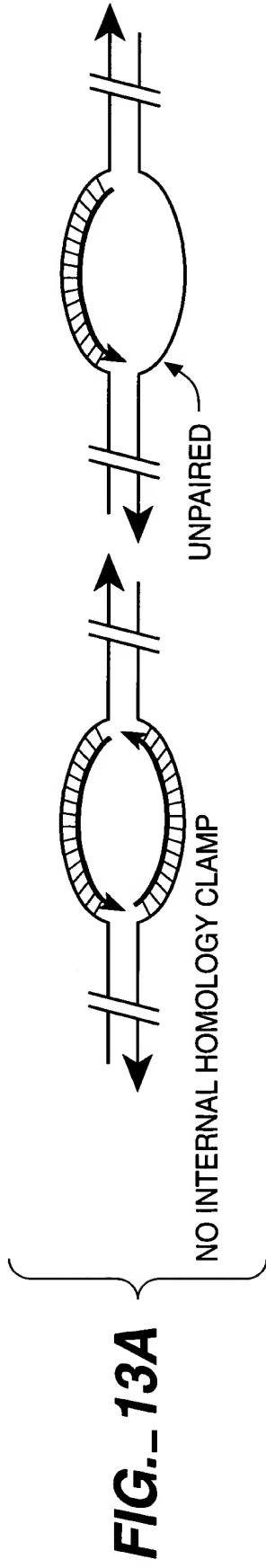
**FIG.\_10****FIG.\_14A**



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TARGET PROBE		RecA COATING	HOST	% RECOMBINANT / TOTAL COLONIES
pRD.59	—	+	RecA+	0
	—	+	RecA—	0
pRD.59	IP290	—	RecA+	0
	IP290	—	RecA—	0
pRD.59	IP290	+	RecA+	3
	IP290	+	RecA—	0
pRD.59	DP290	—	RecA+	0
	DP290	—	RecA—	0
pRD.59	DP290	+	RecA+	0
	DP290	+	RecA—	0
pRD.59	CP443	—	RecA+	0
	CP443	—	RecA—	0
pRD.59	CP443	+	RecA+	0
	CP443	+	RecA—	0

**FIG. 12**



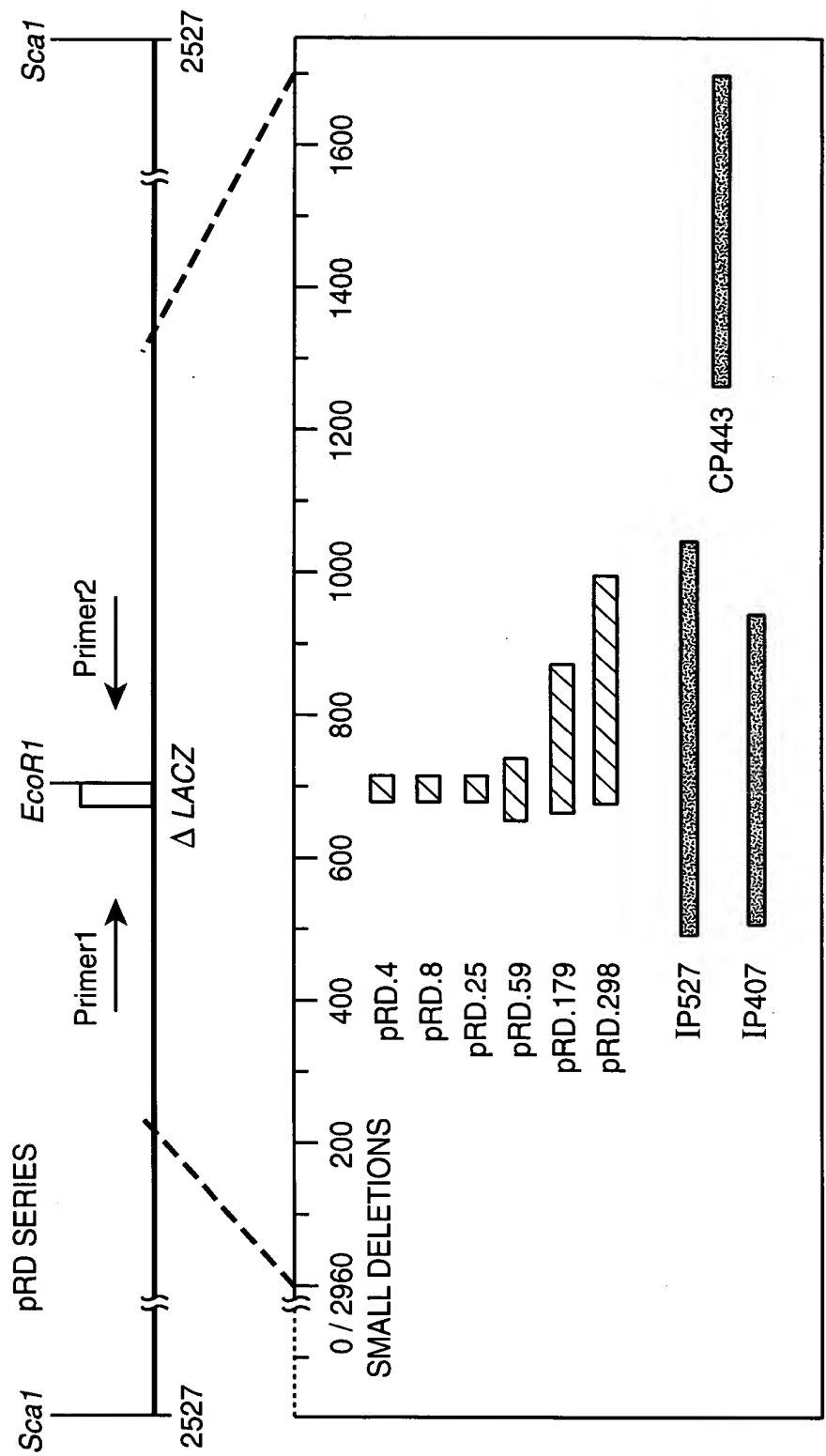
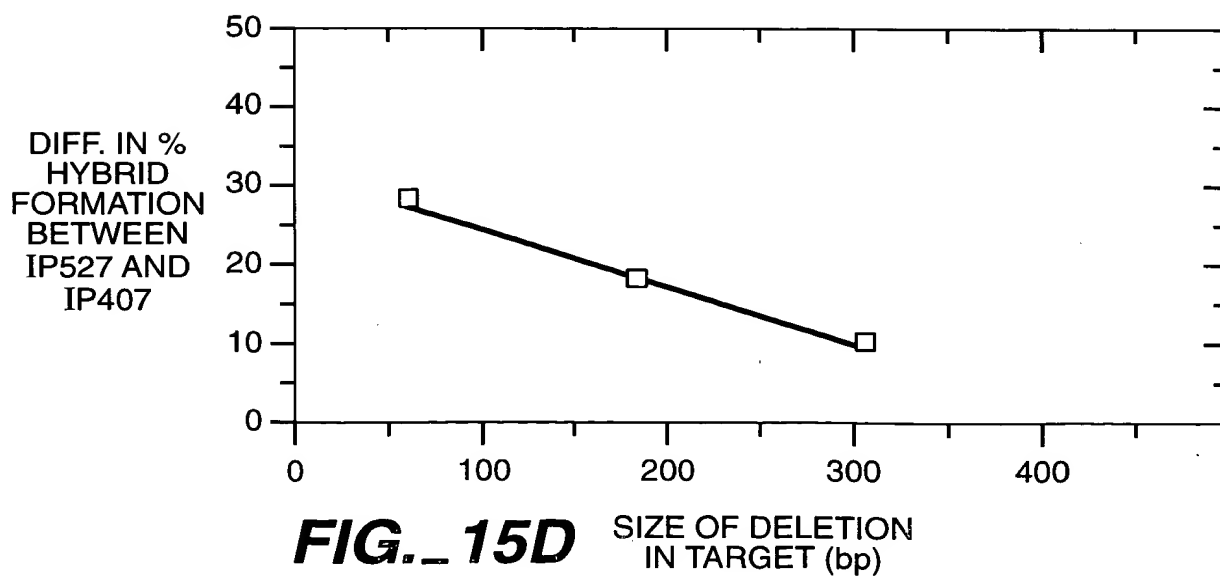
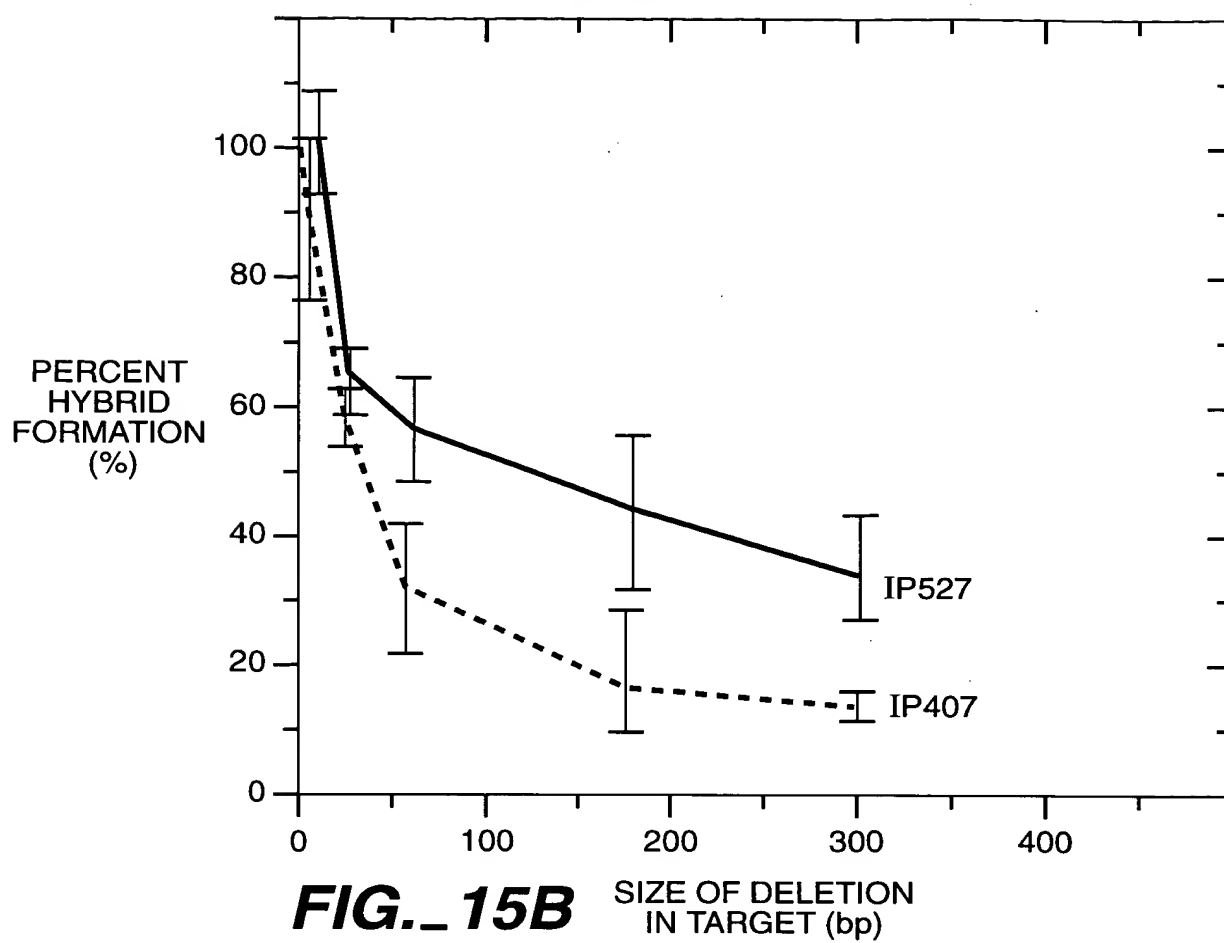
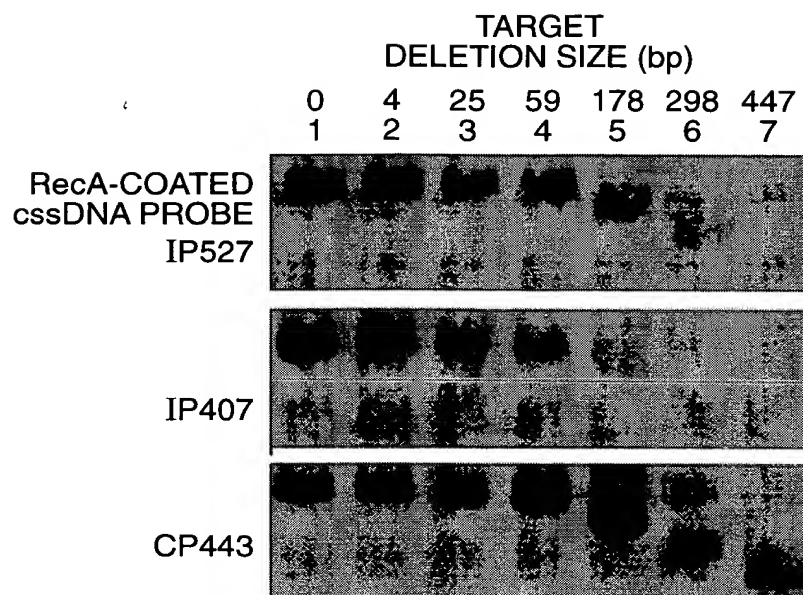
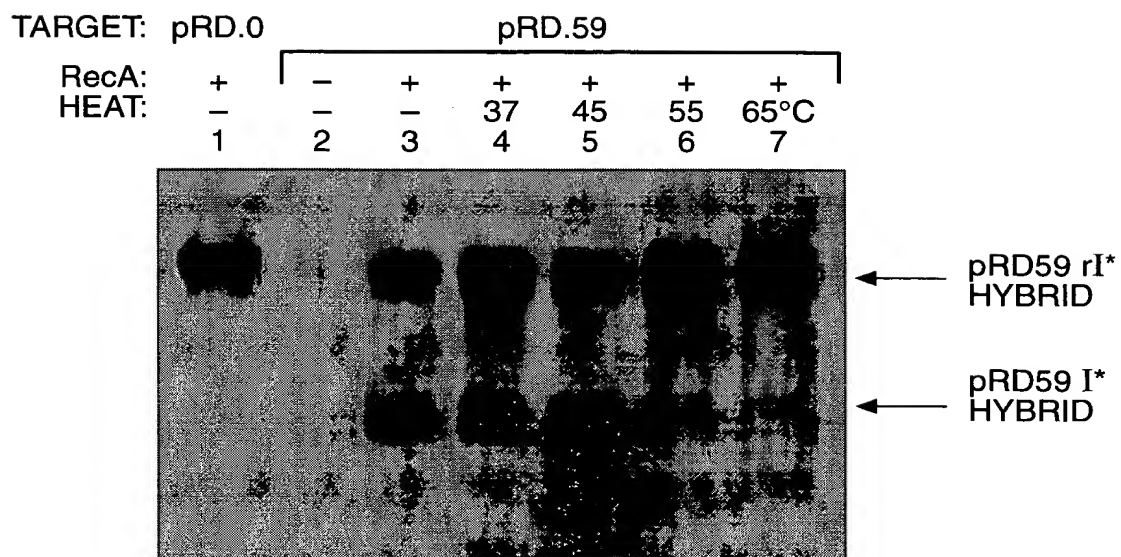


FIG. 15A

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**FIG.\_15C****FIG.\_19**

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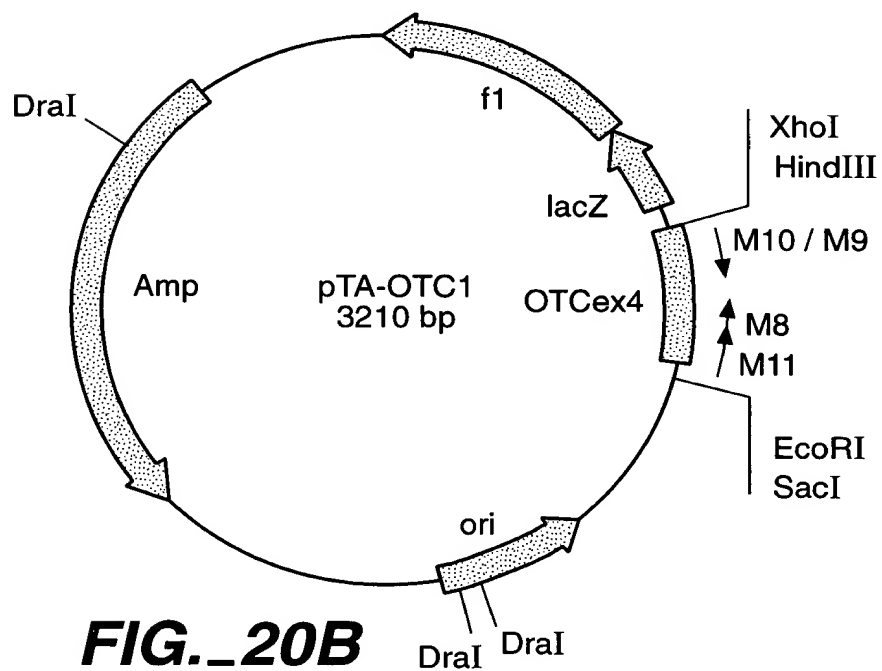
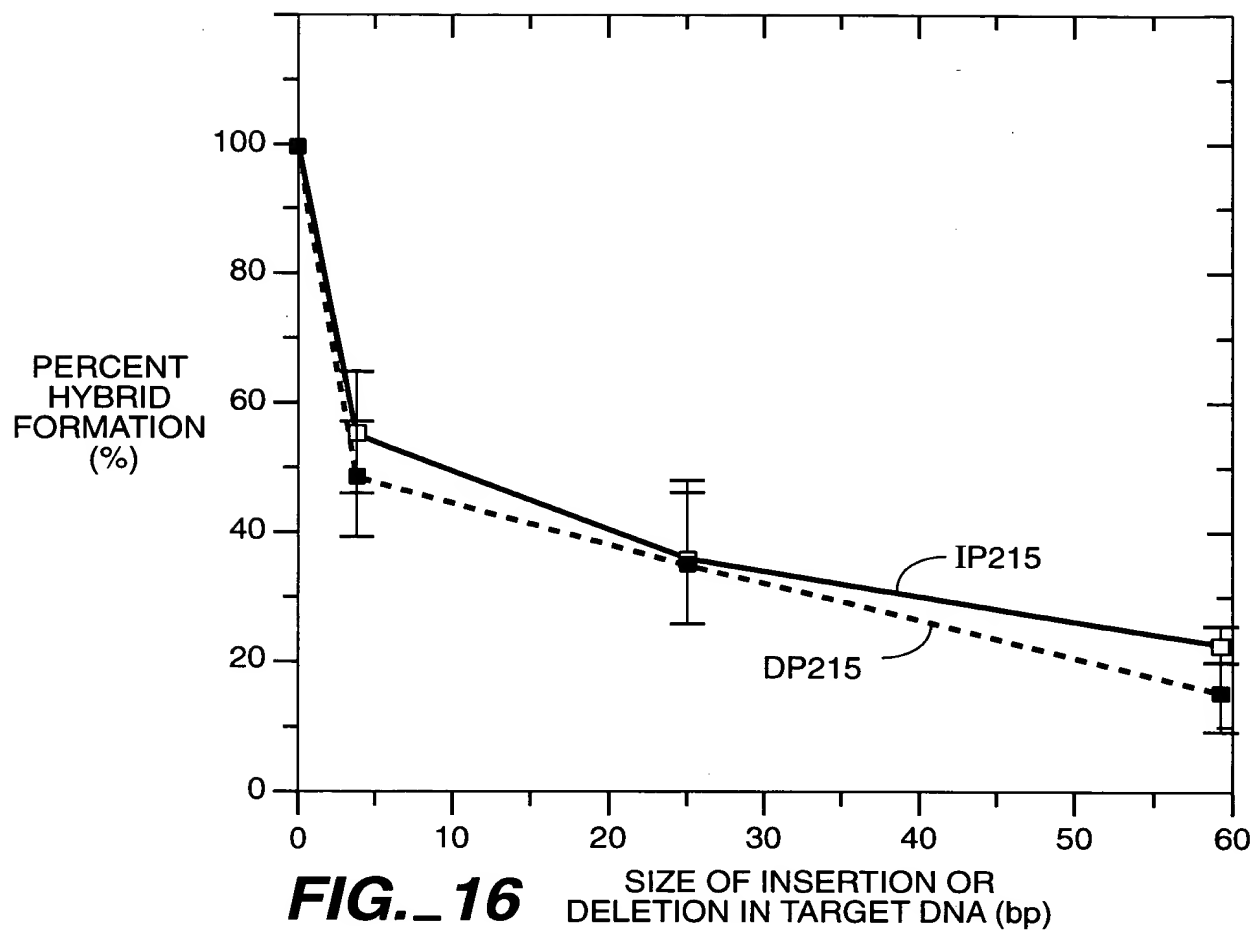


FIG. 17A

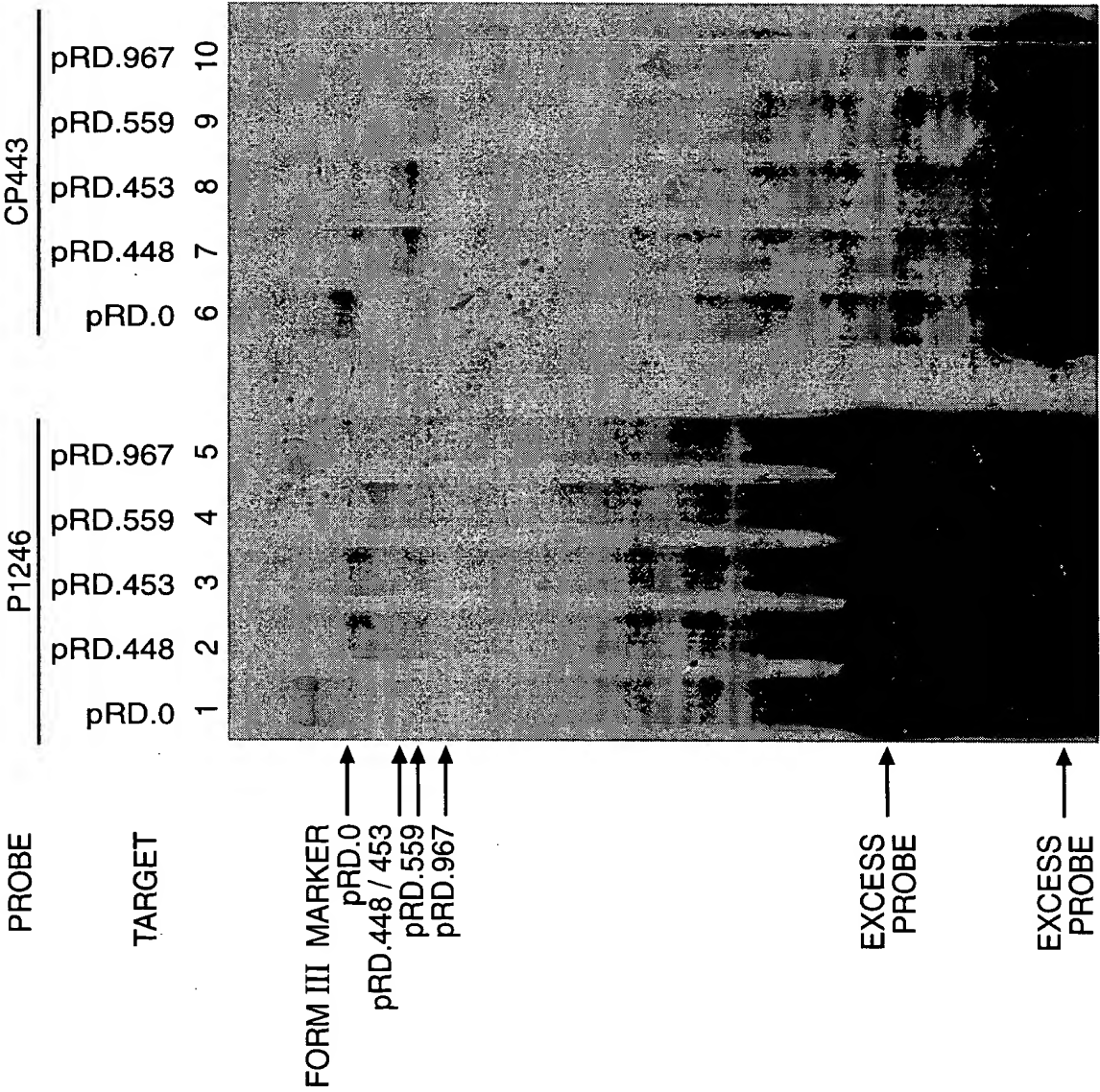


FIG.\_17B

TARGET DNA	AMT. HOMOL. (bp)	RELATIVE HYBRIDIZATION
pRD.0	1246	1.0
pRD.448	798	0.8
pRD.453	793	0.8
pRD.559	687	0.8
pRD.967	279	0.3

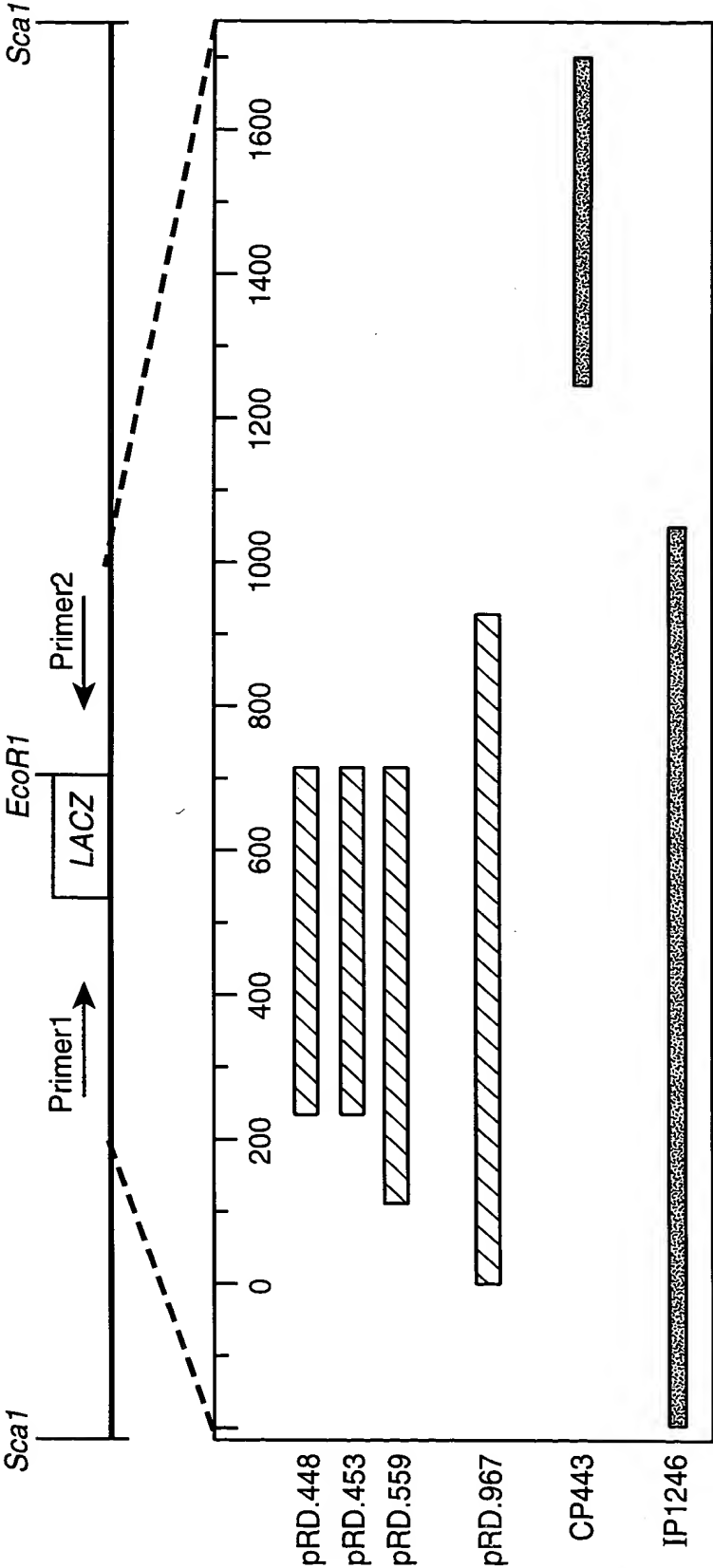
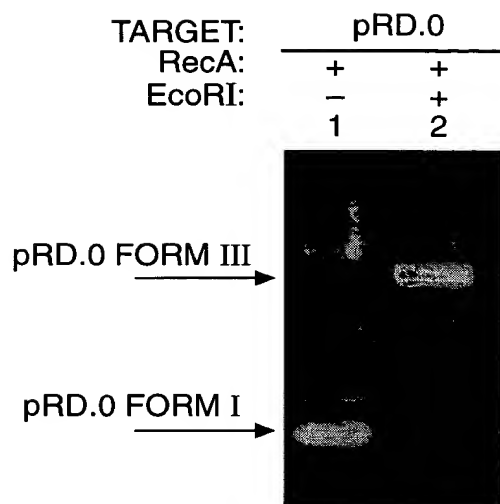
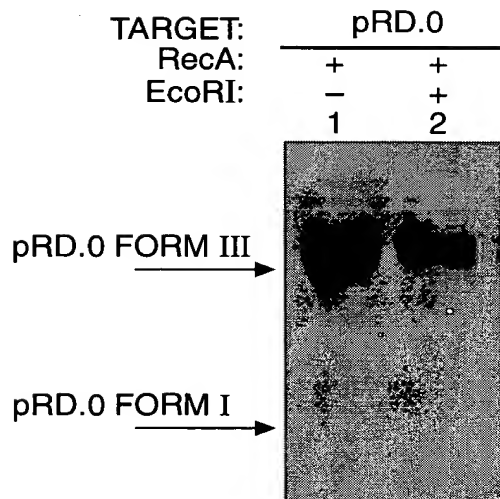
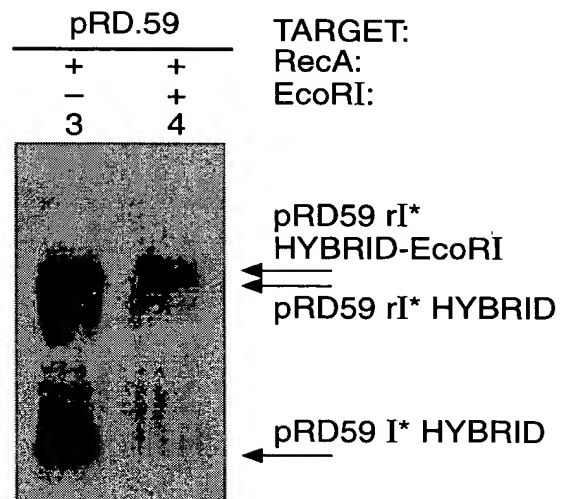


FIG.\_17C

**FIG.\_18A****FIG.\_18B****FIG.\_18C****FIG.\_18D**

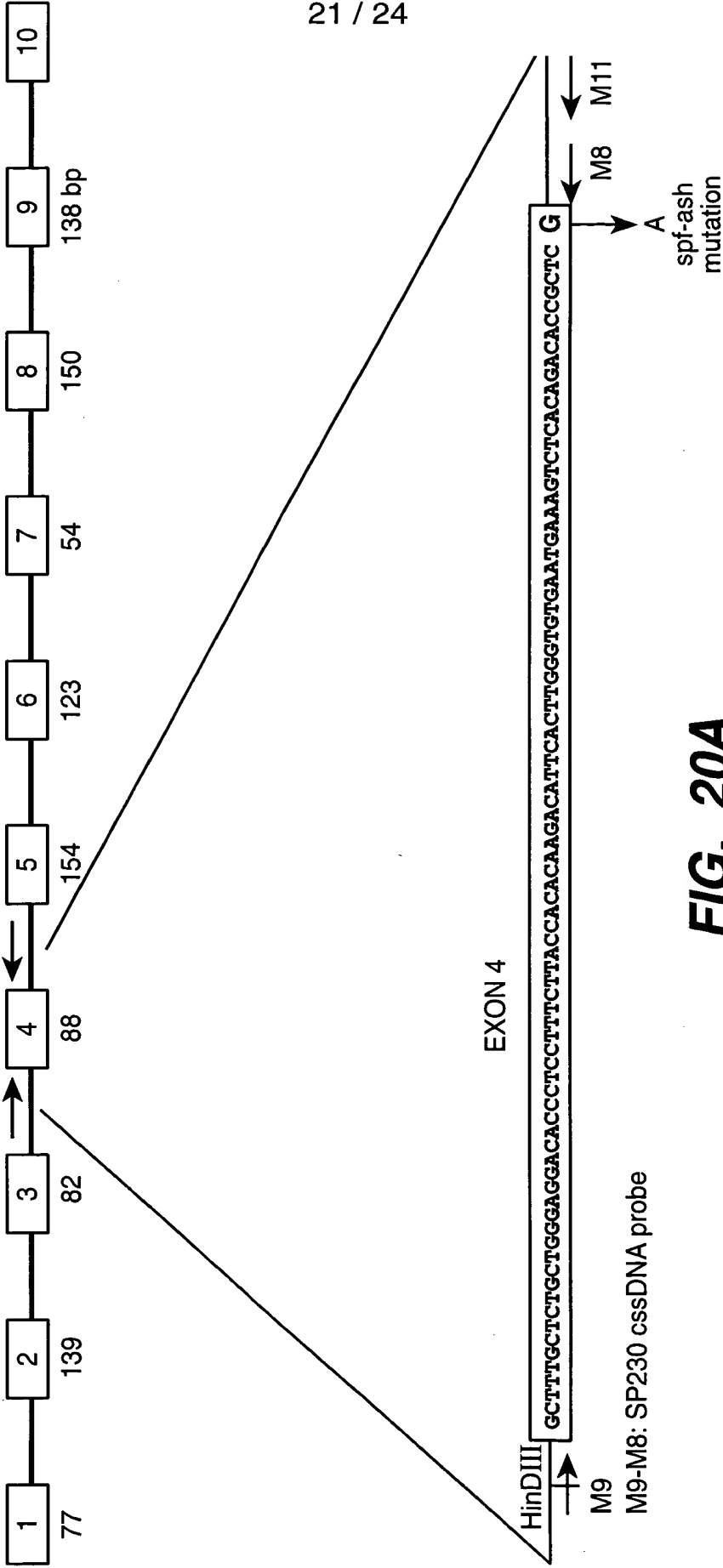


FIG.\_20A





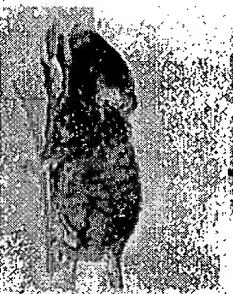


X



HOMOZYGOUS  
spf-ash / spf-ash  
FEMALE PARENT

MUTANT F1  
MALE PUP1



MUTANT F1  
MALE PUP2



MUTANT F1  
FEMALE PUP3



MUTANT F1  
MALE PUP5



MUTANT F1  
FEMALE PUP7



NORMAL \*  
F1 FEMALE  
PUP1014



FIG. 23